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Appl. No. 10/589,418
Amdt. Dated February 20, 2008
Reply to Office Action of September 20, 2007

Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A process for producing 2,2,3,3-tetrafluorooxethane, which comprises allowing tetrafluoroethylene to react with at least one of paraformaldehyde and trioxane a formaldehyde generating compound in anhydrous hydrogen fluoride, said reaction being carried out in the presence of polyfluoroalkylic acid or polyfluoroalkyl ester thereof, represented by the following general formula:



wherein Rf is a polyfluoroalkyl group having 1-5 carbon atoms, and Rf' is a hydrogen atom or a polyfluoroalkyl group having 1-5 carbon atoms.

Claim 2 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, wherein the carboxylic acid, represented by the general formula RfCOORf' , is CF_3COOH .

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Claim 3 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula $RfCOORf'$, is $CF_3COOCH_2CF_2CF_3$.

Claim 4 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula $RfCOORf'$, is $CF_3COOCH_2CF_3$.